

G.H. Briggs,

Automatic Fan.

No. 105772.

Patented July 26, 1870.

Fig. 1.

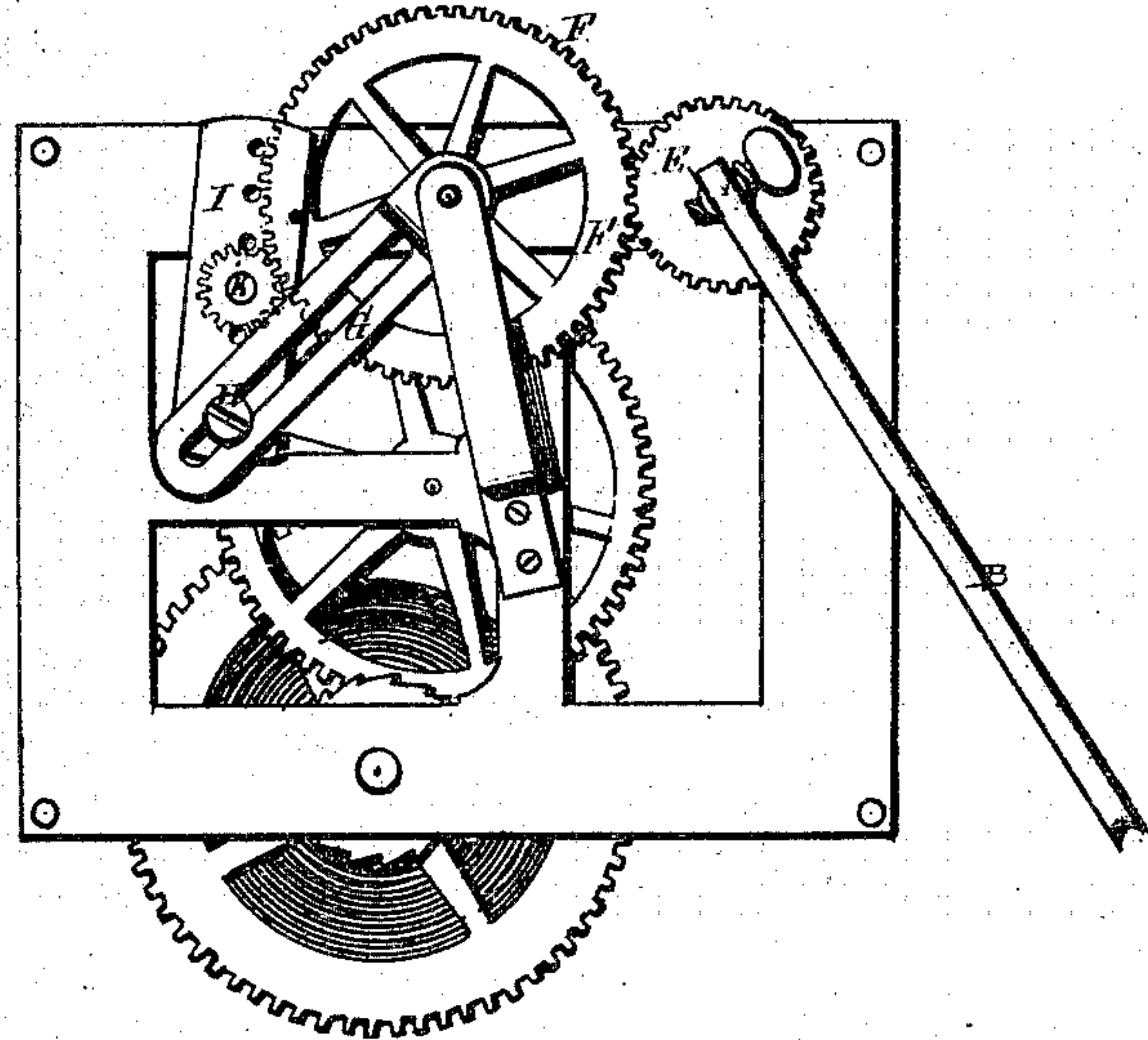


Fig. 2.

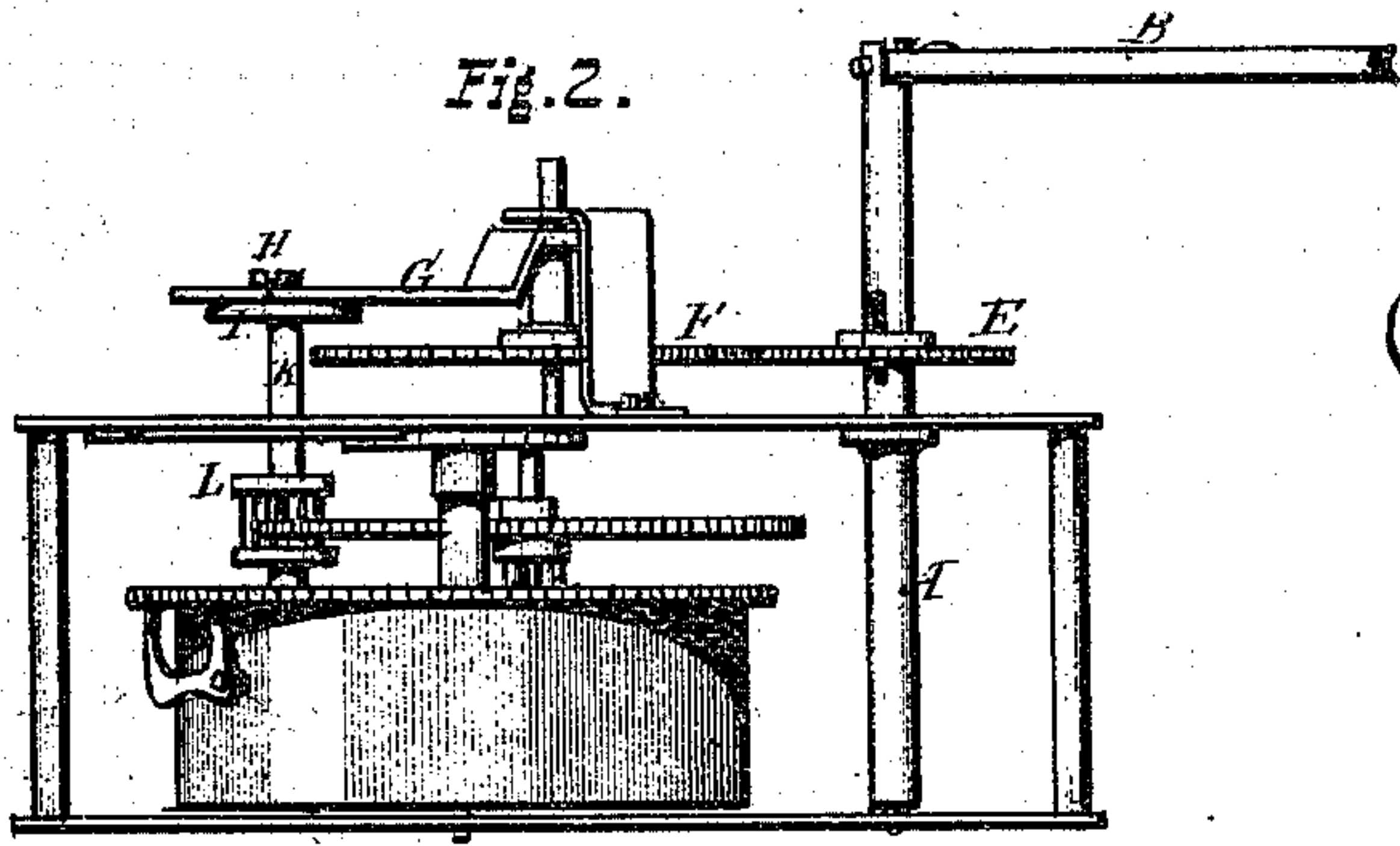


Fig. 4.

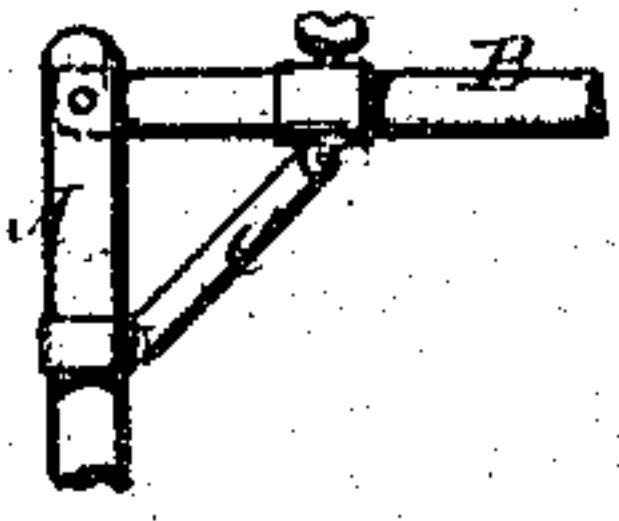


Fig. 3.

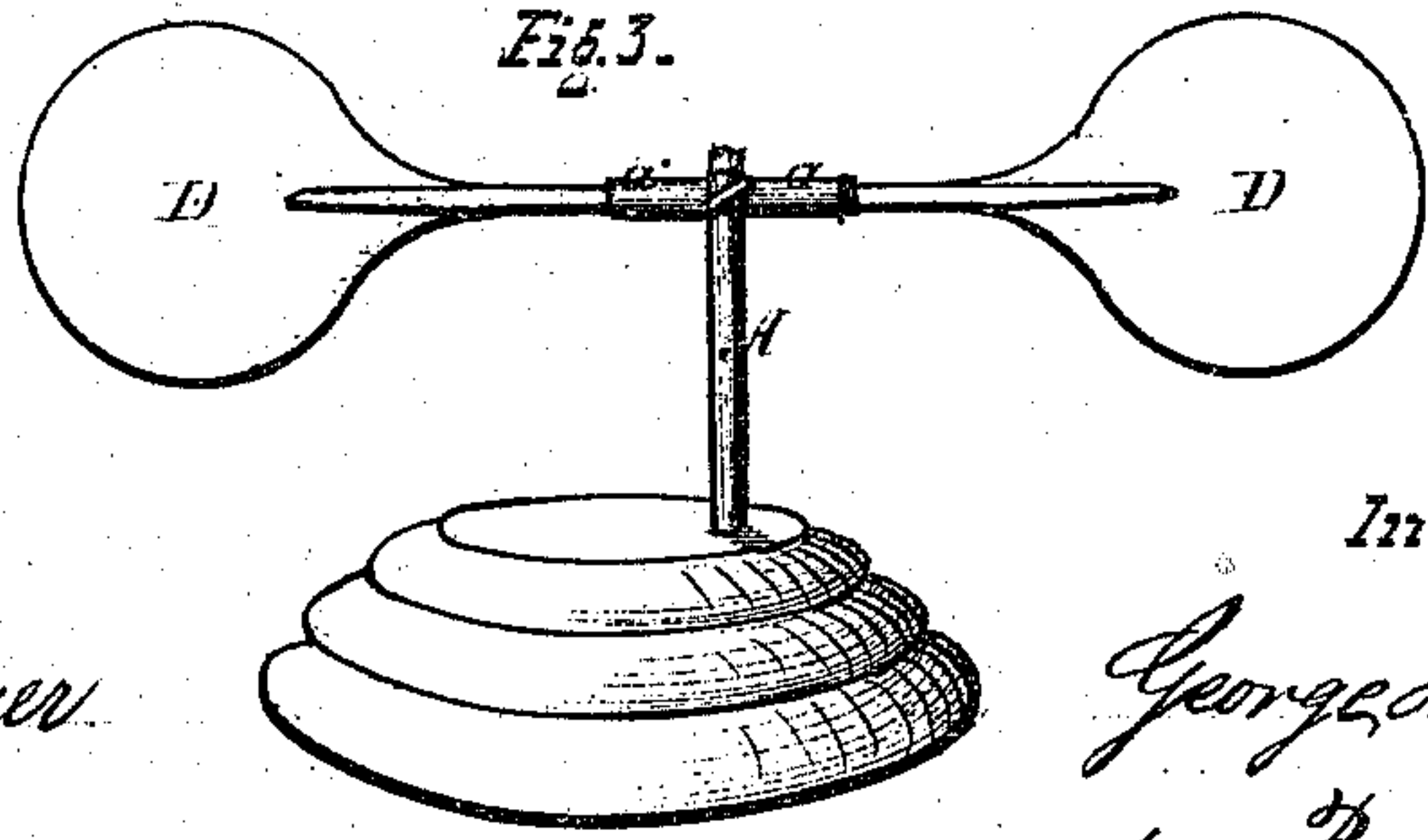
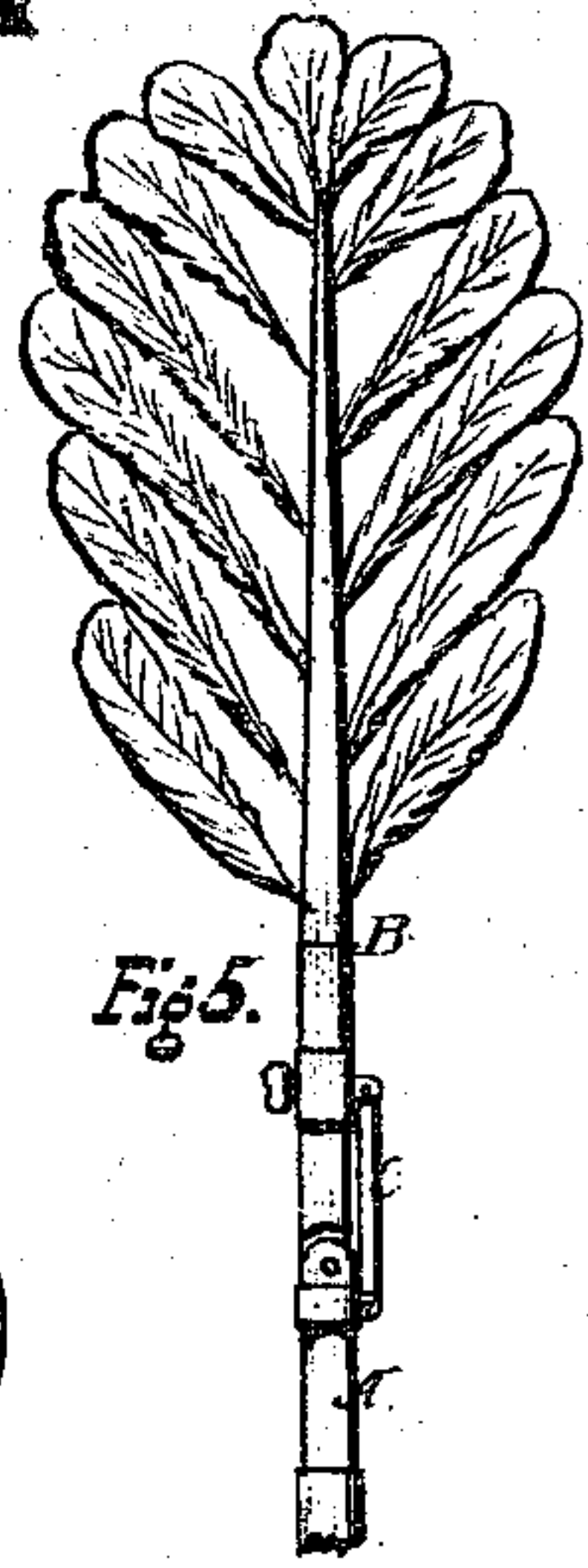


Fig. 5.



Witnesses.

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GEORGE H. BRIGGS, OF MONTGOMERY, ALABAMA.

Letter's Patent No. 105,772, dated July 26, 1870.

IMPROVEMENT IN AUTOMATIC FAN.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE H. BRIGGS, of Montgomery, in the county of Montgomery and State of Alabama, have invented a new and useful Improved Automatic Fan; and I do hereby declare that the following is a full, clear, and exact description thereof, sufficient to enable those skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a plan or top view of the mechanism for operating the fan.

Figure 2 is a side view of the same.

Figure 3 shows the mechanism inclosed in a box or casing forming a stand or platform for the fan.

Figures 4 and 5 are detailed views, hereinafter more particularly referred to.

The nature of my invention consists in constructing an automatic fan with adjustable telescopic supports for one or more fans or brushes; also, in imparting a reciprocating rotary motion to the fan-shaft; also, in the peculiar arrangement of an adjustable device for increasing or diminishing the speed of the fan-shaft.

The fan-shaft is formed in two sections, A B, and provided with sockets *a*, or other suitable means for attaching the fans.

The upper section, B, is a telescopic rod, which may be extended or contracted at pleasure. It is attached to the lower section A by an ordinary hinge-joint, and is held in a vertical position, or inclined at any desired angle by means of an adjustable brace.

The brace C consists of a bar hinged to two collars, one of which is fastened to the section A, and the other slides freely on the section B, and is provided with a set-screw, by which it may be held at any desired point.

Two different positions of the sections and brace are shown respectively in figs. 4 and 5.

The fans D are attached to the lower section A, and to the upper section B are attached any desired number of pea-fowl feathers or brushes, or tassels made of any suitable material, which will serve as a fly-brush and mosquito-chaser.

Fans, also, in any desired number, may be attached to the upper section B, hinged to bars or rods radiating from the section B, so as to have a swinging motion.

The section A is journaled in the frame-work which holds the operating mechanism.

Attached to it, just above the upper journal, is a gear-wheel, E, which receives motion from another gear-wheel, F.

To the shaft of the gear-wheel F is rigidly attached one end of a slotted bar, G, in the slot of which works a screw-pin, H, projecting from a disk or plate, I, attached to a shaft, K, on which is a pinion, L, through which motion is imparted from the operating mechanism, which may consist of an ordinary spring clock-work.

The disk or plate I has a series of holes placed at different distances from the center, and, by inserting the screw-pin H in the different holes, different degrees of velocity are attained by the wheel F, as well as different length of oscillation of the slotted bar G, so that the velocity of the fan-shaft and the distance traveled by it can be regulated at pleasure.

The operating mechanism imparts a continuous rotary motion to the disk or plate I, and the screw-pin H working in the slot, causes the bar G to oscillate and impart a reciprocating rotary motion to the wheel F, and through the wheel E to the fan-shaft, giving the fans a back-and-forward motion.

When the section B is turned down horizontally, as shown in figs. 1, 2, and 4, it oscillates back and forward, with the section A as its center.

This fan may be placed at one end of a table, and the section B extended so as to reach to the other end, the mechanism being so adjusted as to not give too great a sweep to the shaft.

The stand or platform may be provided with a clamp or thumb-screw, or other suitable means for attaching it to the head-board of a bedstead, where its efficiency as a mosquito-chaser will be readily appreciated.

What I claim as new, and desire to secure by Letters Patent, is—

In an automatic fan, the combination of the adjustable telescopic rod A B, which may be extended or contracted and adjusted at different angles with the gearing E F, slotted bar G, plate I, and adjustable wrist-pin H, whereby a reciprocating rotary motion is imparted to the fans, when arranged and operating as herein shown and described.

Witnesses:

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